

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/568,707
Source: IFWP
Date Processed by STIC: 2/27/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/568,707

CRF Edit Date: 3/1/06
Edited by: h

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

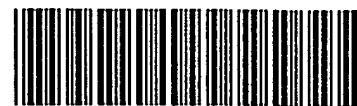
___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: 1 invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:

IFW^p

RAW SEQUENCE LISTING

DATE: 03/01/2006

PATENT APPLICATION: US/10/568,707

TIME: 16:09:55

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03012006\J568707.raw

3 <110> APPLICANT: Yarden, Yosef
 4 Amit, Ido
 5 Yakir, Liat
 7 <120> TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES AND ANTIBODIES AND USE THEREOF

IN 8 TREATING TSG101-ASSOCIATED DISEASES

10 <130> FILE REFERENCE: 31570

C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/568,707

C--> 12 <141> CURRENT FILING DATE: 2006-02-17

12 <160> NUMBER OF SEQ ID NOS: 53

14 <170> SOFTWARE: PatentIn version 3.2

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 2893

18 <212> TYPE: DNA

19 <213> ORGANISM: Homo sapiens

21 <400> SEQUENCE: 1

22	ggcacgagga	tcaggaaggg	ggtgcaagag	ggtagtgat	tggggagcag	aaggggtcct	60
24	aaagatcgct	ctgggaaaag	ggaaggatgc	cgctcttctt	ccggaagcgg	aaaccagtg	120
26	aggaggctcg	gaaacgcctg	gagtaccaga	tgtgtttggc	aaaagaagct	ggggcagatg	180
28	acattctcga	catctctaaa	tgtgagctct	cagagattcc	atttgagct	tttgcaacat	240
30	gcaaagttct	gcagaagaag	gtgctgatcg	tccacacgaa	tcacctcact	tccttgcttc	300
32	ccaaatcctg	cagcctcctg	agtctggcaa	ccattaaggt	tctagatctc	cacgataatc	360
34	agctgacagc	ccttcctgac	gatctggggc	agctgactgc	cctccaggtc	ttaaactgtg	420
36	aaaggaatca	actgatgcag	ctcccacgtt	ccattgggaa	cctgacccag	ctccagactc	480
38	tcaatgttaa	agacaacaag	ctgaaggagc	ttccagacac	cgtgggggag	cttcgaagcc	540
40	tgcgtaccct	caacatcagt	ggaaacgaga	tccagagatt	gccgcagatg	ctggctcacg	600
42	ttcgaaccct	ggagatgctg	agccttgacg	cctcggccat	ggtctaccgc	ccgcgggagg	660
44	tgtgtggtgc	cggcactgcg	gccatcttgc	agttcctctg	caaagagtca	gggctggaat	720
46	actaccccc	ttctcagtac	ttgctgccaa	ttctggagca	agatggaatc	gagaactctc	780
48	gggacagccc	tgatgggccc	acggacagat	tctcaaggga	ggagttagag	tggcagaaca	840
50	ggttctcaga	ctatgagaag	aggaaggaa	agaagatgct	ggagaaactc	gagtttgaa	900
52	ggcgcttggg	actggggcag	cgggagcaca	cccagctcct	tcagcagagc	agcagccaga	960
54	aggatgagat	ccttcagacg	gtcaaggagg	agcagtcctg	gctggagcag	ggcctgagtg	1020
56	agcaccagcg	ccacctcgac	gcagagcggc	agcggctgca	ggagcagctg	aagcagacgg	1080
58	aacagaacat	ttccagccgg	atccagaagc	tgtctcagga	caatcagaga	caaaagaaaa	1140
60	gctccgagat	tttgaaatcg	ctggaaaatg	aaagaataag	aatggaacag	ttgatgtcca	1200
62	taaccagga	ggagactgag	agcctgcggc	gacgtgacgt	tgcctccgcc	atgcagcaga	1260
64	tgtctgactga	gagctgtaag	aaccggctca	tccagatggc	ctacgaatct	cagaggcaga	1320
66	acttggtcca	gcaggcctgt	tccagcatgg	ccgaaatgga	tgaacgattc	cagcagattc	1380
68	tgtcgtggca	gcaaattgat	cagaacaaag	ccatcagcca	gatcctgcag	gagagcgcga	1440
70	tgcagaaggc	tgcgttcgag	gcactccagg	tgaagaaaga	cctgatgcat	cggcagatca	1500
72	ggagccagat	taagttaata	gaaactgagt	tattgcagct	gacacagctg	gagttaaaga	1560
74	ggaagtccct	ggacacagag	tactccagg	agatgatctc	ggagcagcgc	tgggccctca	1620
76	gctccctgct	ccagcagctg	ctcaaagaga	agcagcagcg	agaggaagag	ctccgggaaa	1680

RAW SEQUENCE LISTING

DATE: 03/01/2006

PATENT APPLICATION: US/10/568,707

TIME: 16:09:55

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03012006\J568707.raw

```

78 tcctgacgga gttagaagcc aaaagtga aaaggcagga aaattactgg ctgattcagt 1740
80 atcaacggct tttgaaccag aagcccttgt ccttgaagct gcaagaagag gggatggagc 1800
82 gccagctggt ggccctcctg gaggagctgt cggctgagca ctacctgccc atctttgcgc 1860
84 accaccgct ctcactggac ctgctgagcc aaatgagccc aggggacctg gccaagggtg 1920
86 gcgtctcaga agctggcctg cagcacgaga tcctccggag agtccaggaa ctgctggatg 1980
88 cagccaggat ccagccagag ctgaaaccac caatgggtga ggtcgtcacc cctacggccc 2040
90 cccaggagcc tcctgagtct gtgaggccat ccgctcccc tgcagagctg gaggtgcagg 2100
92 cctcagagtg tgtcgtgtgc ctggaacggg aggccagat gatcttcctc aactgtggcc 2160
94 acgtctgctg ctgccagcag tgcgtccagc cactgctcac ctgcccgtg tgcgccagg 2220
96 acatcgccca gcgcctccgc atctaccaca gcagctgagt gctgcccgcc cacctgggcc 2280
98 tggctctagc cctgcctcgg ccactgtgag ccccgggctc ctgctcagcc ttgtgccagc 2340
100 cagactcgta tgaggctccc cctgcccctg ggccccttcc ccactgccc ggagccccca 2400
102 tcctaagctc caagcatgtc tgggccaggc agaggtgtct ctcattccatg acaccaccag 2460
104 tctgaatggt cctgggggct ggggctggag aggcctgtgc accaccaccc gagcctggga 2520
106 gccagcgtcc cagcctaate acggatctgc tgcctcccag ctgtcttgac tgaaggccac 2580
108 cgcccctgca ggagcttggg tcctcatctg ggggccatgc acaggcccgt cccaccctgc 2640
110 atgtgggaag ggagcaggag ggccctggctg ggtgagggga ggccttctct ggaaggcgtg 2700
112 tgggtgcaggc ctgtgtctac agtggcacca gcaaccctgg gtctccctct ctgctgtctc 2760
114 ccagaacccc ggggccctcc tgcctctccac aactgtccct ccttacccca tgtagctcga 2820
116 tccgaagcag gagtgtcaat aaacctgtct tcagtgcgaa aaaaaaaaaa aaaaaaaaaa 2880
118 aaaaaaaaaa aaa 2893

```

121 <210> SEQ ID NO: 2

122 <211> LENGTH: 723

123 <212> TYPE: PRT

124 <213> ORGANISM: Homo sapiens

126 <400> SEQUENCE: 2

```

128 Met Pro Leu Phe Phe Arg Lys Arg Lys Pro Ser Glu Glu Ala Arg Lys
129 1 5 10 15
132 Arg Leu Glu Tyr Gln Met Cys Leu Ala Lys Glu Ala Gly Ala Asp Asp
133 20 25 30
136 Ile Leu Asp Ile Ser Lys Cys Glu Leu Ser Glu Ile Pro Phe Gly Ala
137 35 40 45
140 Phe Ala Thr Cys Lys Val Leu Gln Lys Lys Val Leu Ile Val His Thr
141 50 55 60
144 Asn His Leu Thr Ser Leu Pro Lys Ser Cys Ser Leu Leu Ser Leu
145 65 70 75 80
148 Ala Thr Ile Lys Val Leu Asp Leu His Asp Asn Gln Leu Thr Ala Leu
149 85 90 95
152 Pro Asp Asp Leu Gly Gln Leu Thr Ala Leu Gln Val Leu Asn Val Glu
153 100 105 110
156 Arg Asn Gln Leu Met Gln Leu Pro Arg Ser Ile Gly Asn Leu Thr Gln
157 115 120 125
160 Leu Gln Thr Leu Asn Val Lys Asp Asn Lys Leu Lys Glu Leu Pro Asp
161 130 135 140
164 Thr Val Gly Glu Leu Arg Ser Leu Arg Thr Leu Asn Ile Ser Gly Asn
165 145 150 155 160
168 Glu Ile Gln Arg Leu Pro Gln Met Leu Ala His Val Arg Thr Leu Glu
169 165 170 175
172 Met Leu Ser Leu Asp Ala Ser Ala Met Val Tyr Pro Pro Arg Glu Val

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/568,707

DATE: 03/01/2006

TIME: 16:09:55

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03012006\J568707.raw

```

173          180          185          190
176 Cys Gly Ala Gly Thr Ala Ala Ile Leu Gln Phe Leu Cys Lys Glu Ser
177          195          200          205
180 Gly Leu Glu Tyr Tyr Pro Pro Gln Tyr Leu Leu Pro Ile Leu Glu
181          210          215          220
184 Gln Asp Gly Ile Glu Asn Ser Arg Asp Ser Pro Asp Gly Pro Thr Asp
185 225          230          235          240
188 Arg Phe Ser Arg Glu Glu Leu Glu Trp Gln Asn Arg Phe Ser Asp Tyr
189          245          250          255
192 Glu Lys Arg Lys Glu Gln Lys Met Leu Glu Lys Leu Glu Phe Glu Arg
193          260          265          270
196 Arg Leu Glu Leu Gly Gln Arg Glu His Thr Gln Leu Leu Gln Gln Ser
197          275          280          285
200 Ser Ser Gln Lys Asp Glu Ile Leu Gln Thr Val Lys Glu Glu Gln Ser
201          290          295          300
204 Arg Leu Glu Gln Gly Leu Ser Glu His Gln Arg His Leu Asp Ala Glu
205 305          310          315          320
208 Arg Gln Arg Leu Gln Glu Gln Leu Lys Gln Thr Glu Gln Asn Ile Ser
209          325          330          335
212 Ser Arg Ile Gln Lys Leu Leu Gln Asp Asn Gln Arg Gln Lys Lys Ser
213          340          345          350
216 Ser Glu Ile Leu Lys Ser Leu Glu Asn Glu Arg Ile Arg Met Glu Gln
217          355          360          365
220 Leu Met Ser Ile Thr Gln Glu Glu Thr Glu Ser Leu Arg Arg Arg Asp
221          370          375          380
224 Val Ala Ser Ala Met Gln Gln Met Leu Thr Glu Ser Cys Lys Asn Arg
225 385          390          395          400
228 Leu Ile Gln Met Ala Tyr Glu Ser Gln Arg Gln Asn Leu Val Gln Gln
229          405          410          415
232 Ala Cys Ser Ser Met Ala Glu Met Asp Glu Arg Phe Gln Gln Ile Leu
233          420          425          430
236 Ser Trp Gln Gln Met Asp Gln Asn Lys Ala Ile Ser Gln Ile Leu Gln
237          435          440          445
240 Glu Ser Ala Met Gln Lys Ala Ala Phe Glu Ala Leu Gln Val Lys Lys
241          450          455          460
244 Asp Leu Met His Arg Gln Ile Arg Ser Gln Ile Lys Leu Ile Glu Thr
245 465          470          475          480
248 Glu Leu Leu Gln Leu Thr Gln Leu Glu Leu Lys Arg Lys Ser Leu Asp
249          485          490          495
252 Thr Glu Ser Leu Gln Glu Met Ile Ser Glu Gln Arg Trp Ala Leu Ser
253          500          505          510
256 Ser Leu Leu Gln Gln Leu Leu Lys Glu Lys Gln Gln Arg Glu Glu Glu
257          515          520          525
260 Leu Arg Glu Ile Leu Thr Glu Leu Glu Ala Lys Ser Glu Thr Arg Gln
261          530          535          540
264 Glu Asn Tyr Trp Leu Ile Gln Tyr Gln Arg Leu Leu Asn Gln Lys Pro
265 545          550          555          560
268 Leu Ser Leu Lys Leu Gln Glu Glu Gly Met Glu Arg Gln Leu Val Ala
269          565          570          575

```

RAW SEQUENCE LISTING

DATE: 03/01/2006

PATENT APPLICATION: US/10/568,707

TIME: 16:09:55

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03012006\J568707.raw

```

272 Leu Leu Glu Glu Leu Ser Ala Glu His Tyr Leu Pro Ile Phe Ala His
273          580          585          590
276 His Arg Leu Ser Leu Asp Leu Leu Ser Gln Met Ser Pro Gly Asp Leu
277          595          600          605
280 Ala Lys Val Gly Val Ser Glu Ala Gly Leu Gln His Glu Ile Leu Arg
281          610          615          620
284 Arg Val Gln Glu Leu Leu Asp Ala Ala Arg Ile Gln Pro Glu Leu Lys
285 625          630          635          640
288 Pro Pro Met Gly Glu Val Val Thr Pro Thr Ala Pro Gln Glu Pro Pro
289          645          650          655
292 Glu Ser Val Arg Pro Ser Ala Pro Pro Ala Glu Leu Glu Val Gln Ala
293          660          665          670
296 Ser Glu Cys Val Val Cys Leu Glu Arg Glu Ala Gln Met Ile Phe Leu
297          675          680          685
300 Asn Cys Gly His Val Cys Cys Cys Gln Gln Cys Cys Gln Pro Leu Arg
301          690          695          700
304 Thr Cys Pro Leu Cys Arg Gln Asp Ile Ala Gln Arg Leu Arg Ile Tyr
305 705          710          715          720
308 His Ser Ser
312 <210> SEQ ID NO: 3
313 <211> LENGTH: 2044
314 <212> TYPE: DNA
315 <213> ORGANISM: Mus musculus
317 <400> SEQUENCE: 3
318 cttggtttct agaatctcga gactttgtca tcttgagttg cgtgtctttc tgaaatttaa      60
320 agtttccggtg ctcaattcta tgtttgaagg agaccggaca ccagctcagc ttttgggggc      120
322 caatggtttg tatctgtggc caagtcttcg gagtgactgg cctaccttga ggtccaccca      180
324 agaatcggaa catcgggtgga ggacctcccc atccacagag ccagggtcca gaagagctca      240
326 caccggagga tgccccctct ctttcggaag cggaaaccca gtgaggaggc tcgaaaacgc      300
328 ctggagtacc agatgtgtct ggcaaaagaa gctggggcag atgacattct cgacatctct      360
330 aaatgtgagc tctctgagat tccatttggg gcttttgcaa cgtgcaaagt tctacagaaa      420
332 aaggtgttga ttgtccatac aaaccacctc acctccctgc tccccaaagtc ctgcagcctc      480
334 ttgagccttg tcaccatcaa ggtttctggat ctccatgaga accagctgac agcccttctc      540
336 gatgacatgg ggcagctgac agtctctgag gtattgaatg tggaaagaaa tcaactcacg      600
338 catctccctc gctctatttg gaacctgctg cagctccaga cgctcaatgt aaaagacaac      660
340 aagctgaagg agcttctctga cacctggggg gagctgcgga gcctgcggac actcgacatt      720
342 agtgagaacg agattcagag acttccccag atgctggcgc acgtgcggac cctggagacg      780
344 ctgagcctca acgccttggc aatggtctac cccccaccag aggtgtgttg cgctggcact      840
346 gcggccgtgc agcagttcct ctgcaaagag tcaggactgg actattaccc accttctcag      900
348 tacctgctgc cagtctctgga gcaagatgga gcagagaaca cccaagacag ccccgatgga      960
350 cccgcaagcc gattctccag ggaggaggct gaatggcaga atcggttctc cgactacgag      1020
352 aagcggaagg agcagaagat gctggagaag ctggagttcg agcggcgcct ggaccttggg      1080
354 cagcgggagc acgctgagct actgcagcag agccacagcc acaaggacga gatcctgcag      1140
356 acggtcaagc aggagcagac acggctagag caggacctga gcgagcgcca gcgctgtctg      1200
358 gatgcagagc ggcagcagct gcaggagcag ctcaagcaga cggagcagag catcgccagc      1260
360 cgcattcaga gactcctgca ggacaaccag aggcaaaaga agagttctga gattctgaaa      1320
362 tcgctggaga atgagagaat aagaatggag cagttgatgt ccatcaccca ggaggagaca      1380
364 gagaacctca ggcagcgtga gatcgccgcc gccatgcagc agatgctgac ggagagctgt      1440
366 aagagccggc tcatccagat ggccatagag tctcagaggc agagcctggc gcagcaggcc      1500

```

RAW SEQUENCE LISTING

DATE: 03/01/2006

PATENT APPLICATION: US/10/568,707

TIME: 16:09:55

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\03012006\J568707.raw

```

368 tgttccagca tggctgaaat ggacaagcgg ttccagcaga ttctgtcttg gcagcagatg 1560
370 gatcagaaca aagccatcag ccagatcctt caggagagtg taatgcagaa ggctgccttc 1620
372 gaggtctctc aggtgaagaa ggacctgatg catcggcaga tcaggaacca gattaggcta 1680
374 atagaaactg agttactgca gctgacacag ctggagttaa agaggaagtc cctggacaca 1740
376 gagacgcttc aggagatggt ctgagagcag cgctgggcac tcagcaacct gctccagcag 1800
378 ctcttgaaag agaagaagca gcgggaagag gaactccatg gcatcctggc ggaattagag 1860
380 gccaagagcg aaacgaagca ggaaaattac tggctcatcc agtaccaacg gcttttaaac 1920
382 cagaagcctt tgtccttgaa actgcaggaa gaaggcatgg agcgacggct ggtggccctg 1980
384 ctggtggagc tttctgcaga gcactacctg cccctcttcg cccaccaccg catctcactg 2040
386 gaca 2044

```

389 <210> SEQ ID NO: 4

390 <211> LENGTH: 116

391 <212> TYPE: PRT

392 <213> ORGANISM: Mus musculus

394 <400> SEQUENCE: 4

```

396 Met Phe Glu Gly Asp Arg Thr Pro Ala Gln Leu Leu Gly Ala Asn Gly
397 1 5 10 15
400 Leu Tyr Leu Trp Pro Ser Leu Arg Ser Asp Trp Pro Thr Leu Arg Ser
401 20 25 30
404 Thr Gln Glu Ser Glu His Arg Trp Arg Thr Ser Pro Ser Thr Glu Pro
405 35 40 45
408 Gly Ser Arg Arg Ala His Thr Gly Gly Cys Pro Ser Ser Phe Gly Ser
409 50 55 60
412 Gly Asn Pro Val Arg Arg Leu Glu Asn Ala Trp Ser Thr Arg Cys Val
413 65 70 75 80
416 Trp Gln Lys Lys Leu Gly Gln Met Thr Phe Ser Thr Ser Leu Asn Val
417 85 90 95
420 Ser Ser Leu Arg Phe His Leu Gly Leu Leu Gln Arg Ala Lys Phe Tyr
421 100 105 110
424 Arg Lys Arg Cys
425 115

```

428 <210> SEQ ID NO: 5

429 <211> LENGTH: 2971

430 <212> TYPE: DNA

431 <213> ORGANISM: Rattus norvegicus

433 <400> SEQUENCE: 5

```

434 ggtccagaag aactctcgca ggaggatgcc tctcttcttt cggaagcggg aaccacgtga 60
436 ggaagctcgg aaacgcctgg agtaccagat gtgtctggca aaagaagctg gggcagatga 120
438 catccttgac atctctaagt gcgagctttc cgagattoca tttggggctt ttgcaacgtg 180
440 caaagttcta cagaaaaagg tgttgattgt ccacacaaac catctcacct ccctgctgcc 240
442 caagtcctgc agcctcttga gcctcgccac catcaagggt ctggatctcc atgacaacca 300
444 gctgacagcc cttcctgacg atattgggca gctgacagcc ctgcagggtat tgaatgtaga 360
446 aaggaatcaa ctgacacacc tcccacgctc tgttggaac ctgctgcagc tccagaccct 420
448 caacgtaaaa ggtggggaca caagccctgt gcacgttacc ctgaggcaac tccagagtca 480
450 ggccaccgag tgtgaggggtg acggatcagt ctgtctccat ggcaaccaga agcagtatgt 540
452 ctatgagccc gagagtcaga gacttggtgg gcagaagaca gacagacaga ccatcacagt 600
454 gacagaacga gacaacaagc taaaggagct tccggacacc ctgggggagc tgcggagcct 660
456 gcgtaccctc gacatcagtg aaaatgagat ccagagactt ccccagatgc tggctcatgt 720
458 gcggaccctg gagatgggtc tgaacaaccc tgtggctgtc acctctgcaa agcttagtat 780

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/568,707

DATE: 03/01/2006

TIME: 16:09:56

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03012006\J568707.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 02/27/2006

PATENT APPLICATION: US/10/568,707

TIME: 15:04:31

Input Set : A:\31570 Sequence Listing.txt

Output Set: N:\CRF4\02272006\J568707.raw

3 <110> APPLICANT: Yarden, Yosef
 4 Amit, Ido
 5 Yakir, Liat
 7 <120> TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES AND ANTIBODIES AND USE THEREOF
 IN
 8 TREATING TSG101-ASSOCIATED DISEASES
 10 <130> FILE REFERENCE: 31570
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/568,707
 C--> 12 <141> CURRENT FILING DATE: 2006-02-17
 12 <160> NUMBER OF SEQ ID NOS: 53
 14 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

1472 <210> SEQ ID NO: 53
 1473 <211> LENGTH: 25
 1474 <212> TYPE: DNA
 1475 <213> ORGANISM: Artificial sequence
 1477 <220> FEATURE:
 1478 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
 1480 <400> SEQUENCE: 53
 1481 aaggatccct ctgcaggggg agcgg
 E--> 1487 1

25

Does Not Comply
Corrected Diskette Needed

VERIFICATION SUMMARY

DATE: 02/27/2006

PATENT APPLICATION: US/10/568,707

TIME: 15:04:32

Input Set : A:\31570 Sequence Listing.txt

Output Set: N:\CRF4\02272006\J568707.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1487 M:254 E: No. of Bases conflict, this line has no nucleotides.